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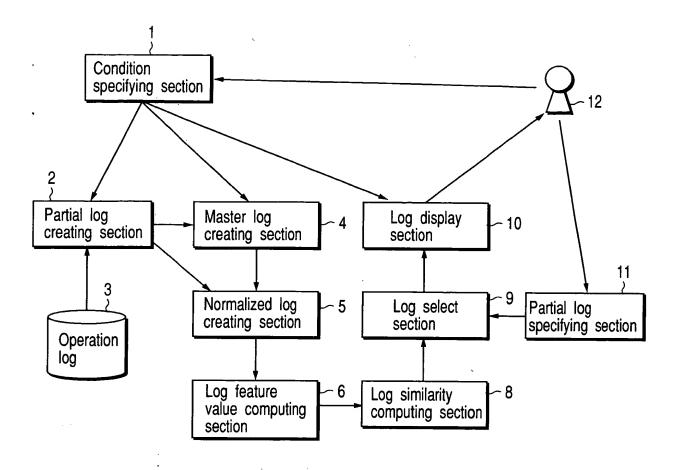
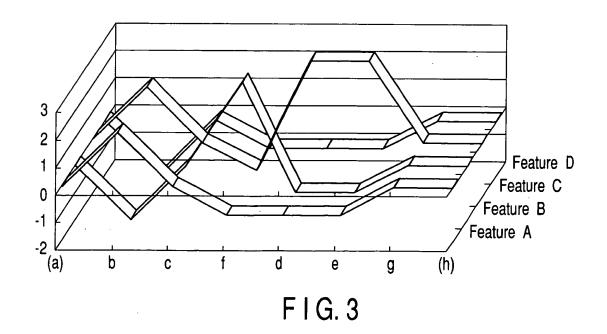
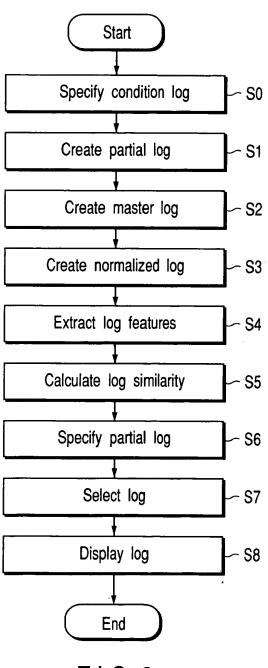
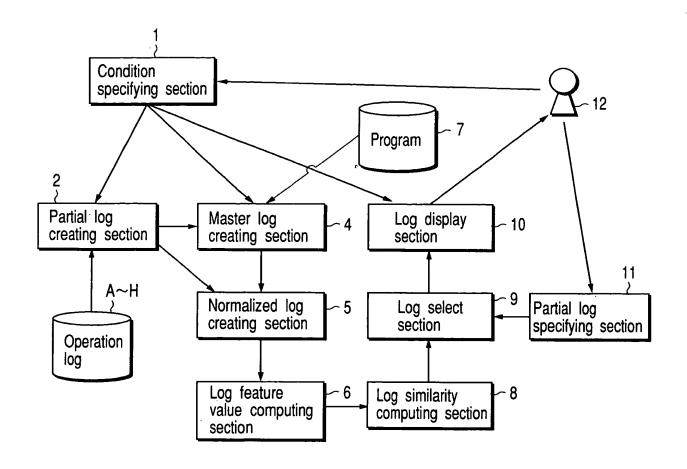


FIG.1





F I G. 2



F I G. 4

```
#include<stdio.h>
#define MAX_STR_NUM 10
// declaration of functions
void PrintError();
void reverseString(char* string);
void makeValueString(int value,char* str);
// main functions
int main(int argc,char** argv){
   char string[MAX STR NUM];
   // convert the number of arguments into character strings
   in ternary representation (the order of characters is in reverse)
   makeValueString(argc,string);
   // reverse the order of characters
   reverseString(string);
   // display the result
   printf(" %d to %s\n",argc,string);
// definition of each function
void makeValueString(int value,char* str);
   // recursion end condition for recursive function
   if(value<=0)
      str[0]=' \setminus 0';
      return;
  makeValueString( value/3,str+1);
  switch(value%3)
    case 0:
      str[0]=' \searrow 0'; // mistaken for '0'
      break;
    case 1:
      str[0]='1';
      break:
    case 2:
      str[0]='2';
      break;
    default:
      break:
```

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```
void PrintError()
   printf("error \n");
void reverseString(char* string)
   char tmp_char
   int n;
   int i:
   n=strlen(string);
   if(n==0)
      PrintError(); // error process
   else
     // reverse the order of the character strings
     for (i=0;i<(n/2);i++)
         tmp_char=string[i];
string[i]=string[n-1-i];
         string[n-1-i]=tmp_char;
```

F I G. 5B

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```
main(12,0x10000)
     makeValueString(12,0x20000)
         if(value<=0)
         makeValueString(4,0x20001)
             if(value<=0)
makeValueString(1,0x20002)
                  if(value<=0)
                  makeValueString(0,0x20003)
                       if(value<=0)
                  switch(value%3)
                    case 1:
             switch(value%3)
               case 1:
        switch(value%3)
           case 0:
   reverseString(0x20000)
        \begin{array}{l} \text{n=strlen(0x20000);} \\ \text{if(n==0)} \end{array}
             PrintError()
                 printf(" error \n");
   printf(" %d to %s\n",12,0x20000);
```

FIG.6

```
main(13,0x10000)
    makeValueString(13,0x20000)
         if(value<=0)
         makeValueString(4,0x20001)
             if(value <= 0)
             makeValueString(1,0x20002)
                  if(value<=0)
                  makeValueString(0,0x20003)
                       if(value<=0)
                  switch(value%3)
                    case 1:
             switch(value%3)
               case 1:
        switch(value%3)
           case 1:
    reverseString(0x20000)
        n=strlen(0x20000);
        if(n==0)
        else
            for(i=0,i<(n/2);i++)
   printf(" %d to %s\n",13,0x20000);
```

F I G. 7

```
int main(int argc,char** argv)
    makeValueString(int value,char* str)
         if(value<=0)
         makeValueString(int value,char* str)
              if(value<=0)
              makeValueString(int value,char* str)
                   if(value<=0)
                   makeValueString(int value,char* str)
                        if(value<=0)
                       makeValueString(value/3,str+1);
                       switch(value%3)
                          case 0:
                          case 1:
                          case 2:
                   switch(value%3)
                     case 0:
                     case 1:
                     case 2:
              switch(value%3)
                 case 0:
                 case 1:
                 case 2:
```

FIG.8A

```
switch(value%3)
        case 0:
case 1:
case 2:
}
reverseString(char* string)
     n=strlen(string);
if(n==0)
           PrintError()
                 printf(" error \n");
      else
            for(i=0,i<(n/2);i++)
           for(i=0,i<(n/2);i++)
           for(i=0,i<(n/2);i++)
printf(" %d to %s\n",argc,string);
```

FIG.8B

```
1 main()
1
     makeValueString()
           if(value<=0)
0
0
          makeValueString()
                if(value<=0)
                makeValueString()
                     if(value<=0)
0
                     makeValueString()
                          if(value<=0)
                          makeValueString();
switch(value%3)
0
                             case 0:
                             case 1:
                             case 2:
                       switch(value%3)
0
                         case 0:
                         case 1:
                         case 2:
                 switch(value%3)
                   case 0:
                   case 1:
0
0
                   case 2:
```

FIG. 9A

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```
}
switch(value%3)
                case 0:
0
                case 1:
                case 2:
        reverseString()
              n=strlen();
if(n==0)
                    PrintError()
                         printf();
0
            else
00000000000
                 for(i=0,i<(n/2);i++)
                 for(i=0,i<(n/2);i++)
                 for(i=0,i<(n/2);i++)
0
        printf();
```

FIG. 9B

<u>A</u>	В	С	D	E	F	G	H
1	1	1	1	1	1	1	1
	1		j	1	j	j	•
	1	1	- }	}	}	1	}
	1	1	1	1	1	1	1
	1	1	1	1	1	1	j
		1	- {			ł	
	1	1 0 0 1	1 0 0 1 1	1 0 0 1	1 0 0 1	1 0 0 1	1 0
1 1	1	0	0	0	0	0	0 0 1
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l ŏ	Ŏ	1			1	1	
	0	1	1	- }	1	1	1
8	110000000000011	1	1	1	1	1	1
ŏ	Ŏ	į	į	į	į	į	ģ
ŏ	ğ	0 1	1 0 1	1 0 1	0	1 0 1	1
100000000000111100101	1	1	i		i	1	1
1	1	1	1	1	1	1	1
ļģ	1 0 0 1	1 0 0 1	1010111001	1 0 1 0	1 0 1 0	1 0 0 1	0 0 1
l j	j	1	j	j	j	j	j
	1	}	- }	i	}	•	}
1 1	1 0 0	1	1	1 0 1 0	1	1 0 1 0	1 0 0
ĺĺ	Ò	0 1 0	Ŏ	Ì	1 0 0	1	Ŏ
l ĭ	Ĭ	Ĭ	1	Ĭ	Ĭ	Ĭ	j
		1			1		1
	}	1	1	}	1	1	1
1 1	1	1	1	1	1	1	1
ŏ	Ŏ	Ŏ	1	Ŏ	Ŏ	Ŏ	1
ŏ	Ŏ	Ŏ	1	Ŏ	Ŏ	Ŏ	1
8	0	0	1	0	0	0	1
10000001111	100000011111	1000000011	Ó	100000011111	1000000011111	1 0 0 0 0 0	0
	į	į	Ŏ	1	1	1	ŏ
	1	Ŏ	Ŏ			- }	ŏ
	1	1	11000000111	1	1	1	111110000011
1 1	1	1	1	1	1	1	1
<u> </u>	<u></u>					• 1	

FIG. 10

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Α οοοοοοοοοφφφφφφφφή-φοοορηνηνοοοορηγηγηνηνηνηνοοοοο	A
Β 00000000000000666666666666516000559900006490000009999999	В
C 000000000000000000000000000000000000	C
D 00000000000,44000000000000000000000000	D
E 000000000000000000000000000000000000	E
F 0000000000,44444400000,444444444444444	F
G 00000000000%\\\\\\\\\\\\\\\\\\\\\\\\\\	G
Η ૦૦૦૦૦૦૦૦૦ γγνανανανανήταοοοφφοοοργγοοοοοοοοοοοορφορφορφοροο	<u>H</u>

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	A	В	C	D	Ε	F	G	Н
Α		494	-130	-346	-90	-138	-26	-306
В			-178	-330	-138	-58	-74	-290
C				-58	70	22	70	-18
D					-82	-66	-146	470
E						126	110	-170
F							62	-154
G								-170
Н								
	1							

F I G. 12